

ABSTRACT

An object of the present invention is to provide an inkjet recording ink ensuring excellent discharge stability even after aging of the ink and also exhibiting excellent weather resistance.

This object of the present invention can be attained by a black ink for inkjet recording, comprising an aqueous medium containing a dye in which λ_{max} of the absorption spectrum in an aqueous solution is in the region from 500 and 700 nm and the standardized half-value width thereof is 100 nm or more.

The aqueous ink of the present invention is more enhanced in the discharge stability and weather resistance when the dye contained in the ink, particularly, the dye having the above-described spectral characteristics, is a dye having an oxidation potential of 1.0 V vs SCE or more, 2) a dye having a discoloration rate constant of $5.0 \times 10^{-2} \text{ Hr}^{-1}$ or less, 3) a dye where the maximum value/minimum value ratio of discoloration rate constants of three colors is 1.2 or less, 4) a dye represented by formula (1), 4) a dye containing a compound of formula (A), 5) a dye containing a high boiling point water-miscible organic solvent, 6) particularly a dye containing 20 mass% or more of a water-miscible organic solvent having a boiling point of 100°C or more and 2 mass% or less of a compound of formula (A), and 7) a dye containing a high boiling point water-miscible solvent and a low boiling point water-miscible solvent. The inkjet recording ink of the present invention is an ink capable of ensuring pictorial quality with no loosening in the gradation of neutral gray even by visual evaluation.